TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-01-13-04** **Date: 17-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/01
Sample Type	:	Ultratech 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-01-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.8	225m^2/kg, Min
3	Density (gm/cc)	3.16	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-01-13-04** **Date: 13-02-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP,
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/01
Sample Type	:	Ultratech 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-01-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-13-04** **Date: 18-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1673	1673	11.2	88.8	90-100
3	20 mm	1290	2963	19.8	80.2	30-70
4	10 mm	1470	4433	29.6	70.4	10-35
5	4.75 mm	430	4863	32.4	67.6	0-5
6	Pan	137	5000	33.3	67	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-13-04** **Date: 18-01-2017**

Sample ID No : 2017-01-13-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.21	–

Note:

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Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-13-04** **Date: 18-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	16-01-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.391	545	656	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.614	568	682	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.885	581	692	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-01-13-04** **Date: 18-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-01-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	94	94	9.4	90.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	234	23.4	76.6	60-95	75-100	85-100	95-100
4	1.18 mm	165	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	200	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	280	879	87.9	12.1	5-20	8-30	12-40	15-50
7	150 micron	66	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-13-04** **Date: 18-01-17**

Sample ID No : 2017-01-13-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	5.40	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-13-04** **Date: 19-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-17
Sample ID No	:	2017-01-13-04/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	420	420	8.4	91.6	90-100
3	10 mm	2300	2720	54.4	45.6	25-55
4	4.75 mm	2100	4820	96.4	3.6	0-10
5	Pan	180	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-13-04** **Date: 19-01-2017**

Sample ID No : 2017-01-13-04/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-02-07** **Date: 06-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-17
Sample ID No	:	2017-03-02-07/01
Sample Type/Size	:	Solid concrete blocks of size (400X200X100)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex - E Clause 9.5 and 10)
Date of test	:	02-03-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	202	201	16281	31.680	1945.8	1969.0	Not less than 1800Kg/m^3
2	400	203	200	16240	32.138	1978.9		
3	403	200	202	16281	32.274	1982.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.473	31.680	5.66	6.85	Shall not be more than 10% by mass
2	34.572	32.138	7.57		
3	34.636	32.274	7.32		

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Lab ID : CP-2017-03-02-07

Date: 06-03-17

Sample ID No : 2017-03-02-07/01

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	203	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	200	
3	402	201	201	
4	401	201	202	
5	402	202	203	
6	400	203	200	
7	402	201	202	
8	401	202	201	
9	401	200	203	
10	403	201	201	
11	402	202	201	
12	400	201	202	
13	401	203	203	
14	402	202	202	
15	402	200	203	
16	400	201	200	
17	401	201	202	
18	403	200	201	
19	400	203	200	
20	402	202	202	
Average of 20 blocks	**401**	**201**	**202**	

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Lab ID : CP-2017-03-02-07 Date: 06-03-17

Sample ID No : 2017-03-02-07/01

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	203	81403	352.7	4.3	4.6
2	400	200	80000	372.4	4.7	
3	402	201	80802	337.3	4.2	
4	401	201	80601	346.2	4.3	
5	402	202	81204	381.3	4.7	
6	400	203	81200	403.7	5.0	
7	402	201	80802	392.4	4.9	
8	401	202	81002	386.6	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-20-06** **Date: 23-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)

Agency : Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/84/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-17

Sample ID No : 2017-03-20-06/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/03/2017	23/03/2017	150.22 X 150.54 X 150.55	22614	8.230	289.5	12.8	12.5
2	PCC	M15	16/03/2017	23/03/2017	150.22 X 150.54 X 150.55	22614	8.220	275.9	12.2	
3	PCC	M15	16/03/2017	23/03/2017	150.22 X 150.54 X 150.55	22614	8.231	284.9	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-03-20-06** **Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-17
Sample ID No	:	2017-03-20-06/02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/03/2017	13/04/2017	150.23 X 150.14 X 150.26	22556	8.130	406.0	18.0	18.4
2	PCC	M15	16/03/2017	13/04/2017	150.46 X 150.29 X 150.87	22613	8.220	411.5	18.2	
3	PCC	M15	16/03/2017	13/04/2017	150.19 X 150.10 X 150.32	22544	8.231	428.3	19.0	

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Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-03-07** **Date: 08-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)

Agency : Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/84/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-17

Sample ID No : 2017-04-03-07/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/04/2017	08/04/2017	150.32 X 150.13 X 150.32	22568	8.290	397.2	17.6	17.6
2	Drain Concrete	M20	01/04/2017	08/04/2017	149.77 X 149.32 X 150.22	22364	8.190	391.4	17.5	
3	Drain Concrete	M20	01/04/2017	08/04/2017	149.10 X 151.32 X 150.55	22562	8.220	401.6	17.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-04-03-07 **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-07/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	01/04/2017	08/04/2017	150.01 X 150.34 X 150.54	22553	8.276	415.0	18.4	18.2
2	Drain Concrete	M20	01/04/2017	08/04/2017	150.65 X 150.89 X 149.98	22732	8.230	406.9	17.9	
3	Drain Concrete	M20	01/04/2017	08/04/2017	149.39 X 150.43 X 150.33	22473	8.280	411.3	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-04-03-07 **Date: 29-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-07/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/04/2017	29/04/2017	150.35 X 150.22 X 150.43	22586	8.180	530.8	23.5	22.7
2	Drain Concrete	M20	01/04/2017	29/04/2017	150.54 X 150.11 X 150.10	22598	8.230	513.0	22.7	
3	Drain Concrete	M20	01/04/2017	29/04/2017	150.56 X 150.54 X 150.55	22665	8.199	496.4	21.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-03-07** **Date: 29-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-07/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/04/2017	29/04/2017	150.21 X 150.11 X 150.41	22548	8.280	529.9	23.5	23.8
2	Drain Concrete	M20	01/04/2017	29/04/2017	150.21 X 150.22 X 150.42	22565	8.230	537.0	23.8	
3	Drain Concrete	M20	01/04/2017	29/04/2017	150.53 X 150.44 X 150.43	22646	8.270	545.8	24.1	

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 10-04-17

Lab ID	:	**CP-2017-04-07-05**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of Drain providing covering slab and Kerb stone from MS palya circle to Vidyaranyapura connecting road (RHS) in ward no.11 (Kuvempunagara)
Agency	:	Sri.N. Thirunagendra, #184, Bestara Street, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/84/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05/01
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	07/04/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.32	165.27	2.748	7903	131.4	16.6	15.5	19.3
2	B	100.23	165.34	2.726	7889	136.2	17.3	17.3	21.6
3	C	100.18	165.50	2.815	7881	138.1	17.5	17.5	21.9

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Prepared by
Harshitha

AEE (VRP) SD

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